

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/508,759B  
Source: IFWP  
Date Processed by STIC: 8/28/06

***ENTERED***



IFWP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/508,759B

DATE: 08/28/2006

TIME: 09:54:43

Input Set : A:\A30215APGSEQ-amended.txt  
 Output Set: N:\CRF4\08282006\J508759B.raw

3 <110> APPLICANT: APROGEN INC.  
 5 <120> TITLE OF INVENTION: HUMANIZED ANTIBODY AND PROCESS FOR PREPARING SAME  
 7 <130> FILE REFERENCE: PCA30215/APG  
 9 <140> CURRENT APPLICATION NUMBER: US/10/508,759B  
 10 <141> CURRENT FILING DATE: 2004-09-22  
 12 <150> PRIOR APPLICATION NUMBER: KR10-2002-0015708  
 13 <151> PRIOR FILING DATE: 2002-03-22  
 15 <160> NUMBER OF SEQ ID NOS: 38  
 17 <170> SOFTWARE: KopatentIn 1.71  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 345  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Artificial Sequence  
 24 <220> FEATURE:  
 25 <223> OTHER INFORMATION: Variable region of humanized light chain HZVII  
 27 <400> SEQUENCE: 1  
 28 caggtccagc tggcgcagtc tggagctgaa gtgaagaagc ctggggccctc agtgaagggtt 60  
 30 tcctgc当地 345  
 32 cctggacagg gtcttgatgt gatgggacgg atttattccta gtgggtggaaag cactagctac 180  
 34 gcacagaagt tccaggcgcag agtcacaatg actgcagaca aatccacgag cacagtctac 240  
 36 atggagctca gcagcctgag atctgaggac acggcgtgtt attactgtgc aagagagtc 300  
 38 cgggttgc当地 345  
 41 <210> SEQ ID NO: 2  
 42 <211> LENGTH: 115  
 43 <212> TYPE: PRT  
 44 <213> ORGANISM: Artificial Sequence  
 46 <220> FEATURE:  
 47 <223> OTHER INFORMATION: Variable region of humanized light chain HZVII  
 50 <400> SEQUENCE: 2  
 51 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Ala Pro Gly Ala  
 52 1 5 10 15  
 54 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Ala  
 55 20 25 30  
 57 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 58 35 40 45  
 60 Gly Arg Ile Tyr Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe  
 61 50 55 60  
 63 Gln Gly Arg Val Thr Met Thr Ala Asp Lys Ser Thr Ser Thr Val Tyr  
 64 65 70 75 80  
 66 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 67 85 90 95  
 69 Ala Arg Glu Tyr Arg Val Ala Arg Trp Gly Gln Gly Thr Leu Val Thr  
 70 100 105 110

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72 Val Ser Ala  
 73 115  
 76 <210> SEQ ID NO: 3  
 77 <211> LENGTH: 336  
 78 <212> TYPE: DNA  
 79 <213> ORGANISM: Artificial Sequence  
 81 <220> FEATURE:  
 82 <223> OTHER INFORMATION: Variable region of humanized light chain HZIV  
 84 <400> SEQUENCE: 3  
 85 gatatcgtga tgacccaaac tccactttct ttgtcggtta cccctggaca accagcctct 60  
 87 atctcttgca agtcaagtca gagcctctta tatagtaatg gaaaaaccta tttgaattgg 120  
 89 ttattacaga agccagggca gcctccacag cgcctaatct atctgggtgc taatcggac 180  
 91 tctggagtcct ctgacaggtt cagtggcagt gcatcaggaa cagattttac actgaaaatc 240  
 93 agcagagtgg aggctgagga tggggaggtt tattactgcg tgcaaggtaac acattttcct 300  
 95 cagacgttcg gtggaggcac caaggtggaa atcaaa 336  
 98 <210> SEQ ID NO: 4  
 99 <211> LENGTH: 112  
 100 <212> TYPE: PRT  
 101 <213> ORGANISM: Artificial Sequence  
 103 <220> FEATURE:  
 104 <223> OTHER INFORMATION: Variable region of humanized light chain HZIV  
 106 <400> SEQUENCE: 4  
 107 Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Ser Val Thr Pro Gly  
 108 1 5 10 15  
 110 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser  
 111 20 25 30  
 113 Asn Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Lys Pro Gly Gln Pro  
 114 35 40 45  
 116 Pro Gln Arg Leu Ile Tyr Leu Val Ser Asn Arg Asp Ser Gly Val Pro  
 117 50 55 60  
 119 Asp Arg Phe Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile  
 120 65 70 75 80  
 122 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Val Gln Gly  
 123 85 90 95  
 125 Thr His Phe Pro Gln Thr Phe Gly Gly Thr Lys Val Glu Ile Lys  
 126 100 105 110  
 131 <210> SEQ ID NO: 5  
 132 <211> LENGTH: 26  
 133 <212> TYPE: DNA  
 134 <213> ORGANISM: Artificial Sequence  
 136 <220> FEATURE:  
 137 <223> OTHER INFORMATION: oligomer Ryu94  
 140 <400> SEQUENCE: 5  
 141 gagaattcac attcacgatg tacttg 26  
 144 <210> SEQ ID NO: 6  
 145 <211> LENGTH: 33  
 146 <212> TYPE: DNA  
 147 <213> ORGANISM: Artificial Sequence  
 149 <220> FEATURE:

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150 <223> OTHER INFORMATION: oligomer HUR43-1  
153 <400> SEQUENCE: 6  
154 ctgctgcagc tggacctgac tctggacacc att 33  
157 <210> SEQ ID NO: 7  
158 <211> LENGTH: 33  
159 <212> TYPE: DNA  
160 <213> ORGANISM: Artificial Sequence  
162 <220> FEATURE:  
163 <223> OTHER INFORMATION: oligomer HUR44-1  
166 <400> SEQUENCE: 7  
167 caggtccagc tgcagcagtc tggacctgaa ctg 33  
170 <210> SEQ ID NO: 8  
171 <211> LENGTH: 33  
172 <212> TYPE: DNA  
173 <213> ORGANISM: Artificial Sequence  
175 <220> FEATURE:  
176 <223> OTHER INFORMATION: oligomer HUR45-1  
179 <400> SEQUENCE: 8  
180 tggcccttg gtggaggctg cagagacagt gac 33  
183 <210> SEQ ID NO: 9  
184 <211> LENGTH: 33  
185 <212> TYPE: DNA  
186 <213> ORGANISM: Artificial Sequence  
188 <220> FEATURE:  
189 <223> OTHER INFORMATION: oligomer HUR46-1  
192 <400> SEQUENCE: 9  
193 gcctccacca agggccatc ggtttcccc ctg 33  
196 <210> SEQ ID NO: 10  
197 <211> LENGTH: 28  
198 <212> TYPE: DNA  
199 <213> ORGANISM: Artificial Sequence  
201 <220> FEATURE:  
202 <223> OTHER INFORMATION: oligomer HUR31  
205 <400> SEQUENCE: 10  
206 cagcggccgc tcatttaccc ggggacag 28  
209 <210> SEQ ID NO: 11  
210 <211> LENGTH: 26  
211 <212> TYPE: DNA  
212 <213> ORGANISM: Artificial Sequence  
214 <220> FEATURE:  
215 <223> OTHER INFORMATION: oligomer Ryu86  
218 <400> SEQUENCE: 11  
219 caaagcttgg aagcaagatg gattca 26  
222 <210> SEQ ID NO: 12  
223 <211> LENGTH: 27  
224 <212> TYPE: DNA  
225 <213> ORGANISM: Artificial Sequence  
227 <220> FEATURE:  
228 <223> OTHER INFORMATION: oligomer HUR48

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231 <400> SEQUENCE: 12
232 caagatatcc ccacaggtac cagatac
235 <210> SEQ ID NO: 13
236 <211> LENGTH: 27
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: oligomer HUR49
244 <400> SEQUENCE: 13
245 tgtggggata tcttgatgac ccaaact
248 <210> SEQ ID NO: 14
249 <211> LENGTH: 27
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: oligomer HUR50
257 <400> SEQUENCE: 14
258 cacagatctt ttgatttcca gcttggt
261 <210> SEQ ID NO: 15
262 <211> LENGTH: 27
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: oligomer HUR51
270 <400> SEQUENCE: 15
271 atcaaaaagat ctgtggctgc accatct
274 <210> SEQ ID NO: 16
275 <211> LENGTH: 58
276 <212> TYPE: DNA
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: oligomer CK1D
283 <400> SEQUENCE: 16
284 gcgccgtcta gaattaacac tctccctgt tgaagcttt tgtgacgggc gaactcag
287 <210> SEQ ID NO: 17
288 <211> LENGTH: 27
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: oligomer YM001N
296 <400> SEQUENCE: 17
297 ccggaattca cattcacat gtacttg
300 <210> SEQ ID NO: 18
301 <211> LENGTH: 16
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: oligomer YM003
309 <400> SEQUENCE: 18

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310 tgcccccaga ggtgct          16
313 <210> SEQ ID NO: 19
314 <211> LENGTH: 33
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: oligomer ym257
322 <400> SEQUENCE: 19
323 acgcatttcag tgcttcttgg atgaactggg tga          33
326 <210> SEQ ID NO: 20
327 <211> LENGTH: 31
328 <212> TYPE: DNA
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: oligomer YM258
335 <400> SEQUENCE: 20
336 atccaaagaag cactgaatgc gtagccagaa g          31
339 <210> SEQ ID NO: 21
340 <211> LENGTH: 38
341 <212> TYPE: DNA
342 <213> ORGANISM: Artificial Sequence
344 <220> FEATURE:
345 <223> OTHER INFORMATION: oligomer YM004
348 <400> SEQUENCE: 21
349 ccaattcaaa gcggttttc cattactata taagaggc          38
352 <210> SEQ ID NO: 22
353 <211> LENGTH: 32
354 <212> TYPE: DNA
355 <213> ORGANISM: Artificial Sequence
357 <220> FEATURE:
358 <223> OTHER INFORMATION: oligomer YM009
361 <400> SEQUENCE: 22
362 gcagccaccc tacgtttgat ttccaccttg gt          32
365 <210> SEQ ID NO: 23
366 <211> LENGTH: 39
367 <212> TYPE: DNA
368 <213> ORGANISM: Artificial Sequence
370 <220> FEATURE:
371 <223> OTHER INFORMATION: oligomer Ryu 166
374 <400> SEQUENCE: 23
375 ggatttgtct gcagtcattg tggctctgcc ctggaactt          39
378 <210> SEQ ID NO: 24
379 <211> LENGTH: 27
380 <212> TYPE: DNA
381 <213> ORGANISM: Artificial Sequence
383 <220> FEATURE:
384 <223> OTHER INFORMATION: oligomer Hur 37
387 <400> SEQUENCE: 24
388 gacaaatcca cgagcacagt ctacatg          27

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/508,759B

DATE: 08/28/2006

TIME: 09:54:44

Input Set : A:\A30215APGSEQ-amended.txt

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